

Title (en)  
OXIDATIVE COUPLING OF METHANE

Title (de)  
OXIDATIVE KUPPLUNG VON METHAN

Title (fr)  
COUPLAGE OXIDATIF DE MÉTHANE

Publication  
**EP 3786138 A1 20210303 (EN)**

Application  
**EP 20203394 A 20160921**

Priority  

- US 201562242777 P 20151016
- US 201662304877 P 20160307
- EP 16855929 A 20160921
- US 2016052959 W 20160921

Abstract (en)  
The present disclosure provides a method for generating higher hydrocarbon(s) from a stream comprising compounds with two or more carbon atoms (C<sub>2+</sub>), comprising introducing methane and an oxidant (e.g., O<sub>2</sub>) into an oxidative coupling of methane (OCM) reactor. The OCM reactor reacts the methane with the oxidant to generate a first product stream comprising the C<sub>2+</sub> compounds. The first product stream can then be directed to a separations unit that recovers at least a portion of the C<sub>2+</sub> compounds from the first product stream to yield a second product stream comprising the at least the portion of the C<sub>2+</sub> compounds

IPC 8 full level  
**C07C 2/84** (2006.01); **C07C 5/327** (2006.01); **C07C 7/00** (2006.01); **C07C 7/11** (2006.01); **C07C 9/06** (2006.01); **C07C 11/04** (2006.01); **C07C 11/06** (2006.01); **C10L 3/10** (2006.01)

CPC (source: EP US)  
**B01D 53/047** (2013.01 - EP US); **B01D 53/1487** (2013.01 - EP US); **B01D 53/1493** (2013.01 - EP US); **B01D 53/228** (2013.01 - EP US); **B01D 53/229** (2013.01 - EP US); **B01D 61/246** (2013.01 - EP US); **C07C 1/12** (2013.01 - US); **C07C 2/84** (2013.01 - EP US); **C07C 5/32** (2013.01 - US); **C07C 5/327** (2013.01 - EP); **C07C 7/005** (2013.01 - EP US); **C07C 7/11** (2013.01 - EP US); **C07C 7/144** (2013.01 - US); **B01D 2251/302** (2013.01 - EP US); **B01D 2251/60** (2013.01 - EP US); **B01D 2252/10** (2013.01 - EP US); **B01D 2253/102** (2013.01 - EP US); **B01D 2253/104** (2013.01 - EP US); **B01D 2253/106** (2013.01 - EP US); **B01D 2253/108** (2013.01 - EP US); **B01D 2253/1122** (2013.01 - EP US); **B01D 2253/1124** (2013.01 - EP US); **B01D 2253/116** (2013.01 - EP US); **B01D 2253/204** (2013.01 - EP US); **B01D 2253/25** (2013.01 - EP US); **B01D 2255/104** (2013.01 - EP US); **B01D 2255/20761** (2013.01 - EP US); **B01D 2256/24** (2013.01 - EP US); **B01D 2257/102** (2013.01 - EP US); **B01D 2257/108** (2013.01 - EP US); **B01D 2257/502** (2013.01 - EP US); **B01D 2257/504** (2013.01 - EP US); **B01D 2257/702** (2013.01 - EP US); **Y02C 20/40** (2020.08 - EP); **Y02P 20/151** (2015.11 - EP); **Y02P 20/50** (2015.11 - EP); **Y02P 30/40** (2015.11 - EP)

C-Set (source: EP US)  
EP  

1. **C07C 2/84 + C07C 11/04**
2. **C07C 2/84 + C07C 9/06**
3. **C07C 7/005 + C07C 11/04**
4. **C07C 7/11 + C07C 11/04**
5. **C07C 2/84 + C07C 11/06**
6. **C07C 5/327 + C07C 11/04**

  
US  

1. **C07C 2/84 + C07C 11/04**
2. **C07C 2/84 + C07C 9/06**
3. **C07C 5/32 + C07C 11/04**
4. **C07C 7/005 + C07C 11/04**
5. **C07C 7/144 + C07C 11/04**
6. **C07C 7/11 + C07C 11/04**

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Citation (search report)  
[A] WO 2015106023 A1 20150716 - SILURIA TECHNOLOGIES INC [US]

Designated contracting state (EPC)

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DOCDB simple family (application)

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